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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------------------|---------------|-----------------------|-------------------------|------------------|
| 10/721,187 | 11/26/2003 | Gregory P. Van Vooren | 115584-00298 | 6551 |
| | 90 05/18/2004 | * * | EXAMINER | |
| BLANK ROME LLP 600 NEW HAMPSHIRE AVENUE, N.W. | | | FRIEDHOFER, MICHAEL A | |
| WASHINGTON, DC 20037 | | 0 | ART UNIT | PAPER NUMBER |
| | | | 2832 | |
| | . * | * | DATE MAILED: 05/18/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--|--|--|--|
| Office Action Summer. | 10/721,187 | VAN VOOREN ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Michael A. Friedhofer | 2832 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period with the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from | nely filed s will be considered timely. the mailing date of this communication. | | | | |
| Status | | · | | | | |
| 1) Responsive to communication(s) filed on | | | | | | |
| | | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is | | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | · · | | | | |
| 4)⊠ Claim(s) <u>1-20</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) 13-17 is/are allowed. | | | | | | |
| 6) ☐ Claim(s) <u>1-8, and 18-20</u> is/are rejected. | | | | | | |
| 7)⊠ Claim(s) <u>12</u> is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | |
| | | | | | | |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | | |
| 1. Certified copies of the priority documents have been received. | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No. | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | • | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO 413) | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. | | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 5) ☐ Notice of Informal Pate 6) ☐ Other: | | | | | |
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DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because the phrase "The present invention" should be deleted. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Maeda.

Maeda discloses in figures 1-5 a switch including button 13 rotatably connected to a base 12; levers 15 rotatably connected to the button via the engagement at point 46; and first through fourth tactile bridges 20 fixed to the base. The first bridge is located at a first end of the first lever and the second bridge is located at a second end of the first lever. The third bridge is located at a first end of the second lever and the fourth bridge is located at a second end of the second lever. The point of connected between the first lever and the button is closer to the first end than the second end. The button is connected to a pivot 12 fixed to the base wherein the second end of the first lever is positioned to face towards the pivot. The point of the first lever is located at a distance that

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is at least twice as close to the first end of the first lever than the second end of the first lever. The first switch is closed by motion of the first lever in a first direction with continued motion in the first direction closing the second switch. As for the first end pointing the direction towards the pivot versus the second end, this is a matter of engineering design choice not affecting the operation or function of the switch in which the sequential operation would still be performed.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda in view of Rudolph et al.
 - Maeda discloses all of the claimed limitations with the exception of the tactile bridges being formed by metal discs.
 - Rudolph et al teaches the use of metal discs for the tactile bridges within a sequential switch operation.
 - It would have been obvious to one of ordinary skill in the art to apply the teachings of Rudolph et al to Maeda to use metal discs for the tactile bridges because they are for the same purpose as the button 20 in

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providing both a tactile feel and a bridging of the fixed contacts and therefore would not alter the operation or function of the switch.

Allowable Subject Matter

- 6. Claims 13-17 are allowed.
- 7. Claims 9-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or suggest a switch in which the first lever is rotatably attached to the button for the sequential operation of the tactile bridges.
- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Malecke et al, Lee, Kossakowski, and Geppert et al teach various sequentially operated switches.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A. Friedhofer whose telephone number is 571-272-1992. The examiner can normally be reached on Mon-Fri 6:00 - 2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael A. Friedhofer Primary Examiner Art Unit 2832

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